This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1. (currently amended) Method for determining the speed of a transmission member in a hybrid <u>electric</u> powertrain, said powertrain including a hybrid transmission having at least one <u>electric</u> motor operatively coupled to said transmission member and at least one rotation sensor for operatively sensing rotation of said preselected transmission member, comprising:

providing a first signal indicative of the speed of said transmission member calculated from the output from said at least one rotation sensor,

providing a second signal indicative of the speed of said transmission member calculated from the speed of said at least one <u>electric</u> motor and an effective rotation ratio between the transmission member and said at least one <u>electric</u> motor; and,

selecting as the speed of the transmission member said second signal when predetermined conditions indicate that the first signal is unreliable.

- 2. (original) The method for determining the speed of a transmission member as claimed in claim 1 wherein the transmission member comprises an output member.
- 3. (original) The method for determining the speed of a transmission member as claimed in claim 1 wherein the predetermined conditions which indicate that the first signal is unreliable include a) speed of the transmission member below a predetermined threshold, and b) loss of sensor output.
- 4. (currently amended) The method for determining the speed of a transmission member as claimed in claim 1 wherein the speed of said at least one <u>electric</u> motor is provided by a motor controller.
- 5. (currently amended) Method for determining the speed of a transmission member in a hybrid electric transmission including at least one electric motor, comprising:

providing as the speed of the transmission member a first speed signal calculated from at least one output from a redundant pair of rotation sensors operatively sensing rotation of the output member when either speed sensor is providing an in-range output; and,

providing as the speed of the transmission member a second speed signal calculated from at least one <u>electric</u> motor speed and an effective rotation ratio between the preselected GMC3150

transmission member and said at least one <u>electric</u> motor when neither speed sensor is providing an in-range output.

6. (original) The method as claimed in claim 5 wherein said rotation sensors comprise variable reluctance sensors, further comprising:

providing as the speed of the transmission member the second speed signal when output member speed is below a low-speed threshold.

7. (currently amended) Method for determining the speed of a transmission member in a hybrid <u>electric</u> powertrain, said powertrain including a hybrid transmission having at least one <u>electric</u> motor operatively coupled to said transmission member and at least one rotation sensor for operatively sensing rotation of said transmission member, comprising:

providing a first signal Indicative of the speed of said transmission member calculated from the output from said at least one rotation sensor;

providing a second signal indicative of the speed of said transmission member calculated from the speed of said at least one <u>electric</u> motor and an effective gear ratio between the transmission member and said at least one <u>electric</u> motor;

selecting as the speed of the transmission member said first signal when a first set of conditions are met; and

selecting as the speed of the transmission member said second signal when a second set of conditions are met.

8. (currently amended) Apparatus for determining speed of a transmission member in a hybrid <u>electric</u> powertrain, said transmission including at least one <u>electric</u> motor operatively coupled to said transmission member, comprising:

a sensor adapted to sense rotation of the transmission member and provide an output signal therefrom;

a motor controller adapted to provide a <u>an electric</u> motor speed signal therefrom; and, a computer based transmission controller having a set of program instructions adapted to calculate a first speed signal from the sensor output signal and a second speed signal from the <u>electric</u> motor speed signal and an effective rotation ratio between said at least one <u>electric</u> motor and the transmission member, and further adapted to select as the speed of the transmission member one of the first and second speed signals.

GMC3150